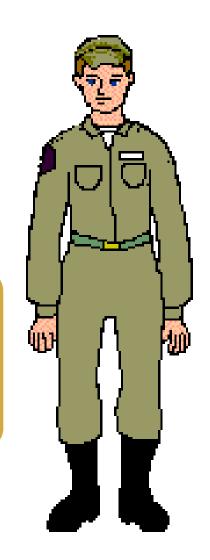


Armed Forces College of Medicine AFCM





Anatomy Department The Brachial Plexus BY Prof. Azza Kamal



Intended Learning Outcomes

- By the end of this lecture, each student should be able to:
- 1. Explain the formation, stages and branches of the brachial plexus

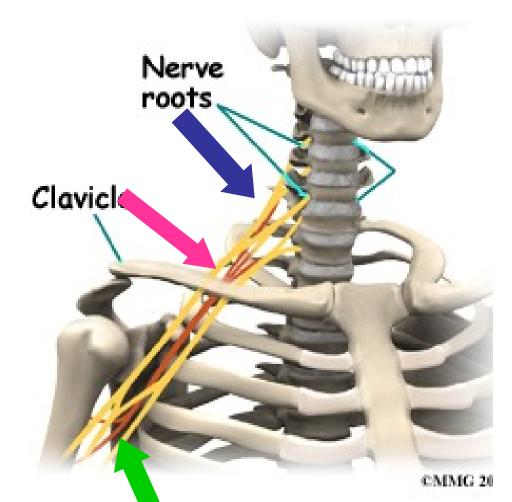


Key Points of the Lecture

- Formation of the brachial plexus
- >Stages of the brachial plexus
- ► Branches of the brachial plexus

- It is a plexus of spinal nerves supplying the upper limb.
- It begins in the neck and descends through the cervicoaxillary canal to reach the axilla.

Brachial Plexus



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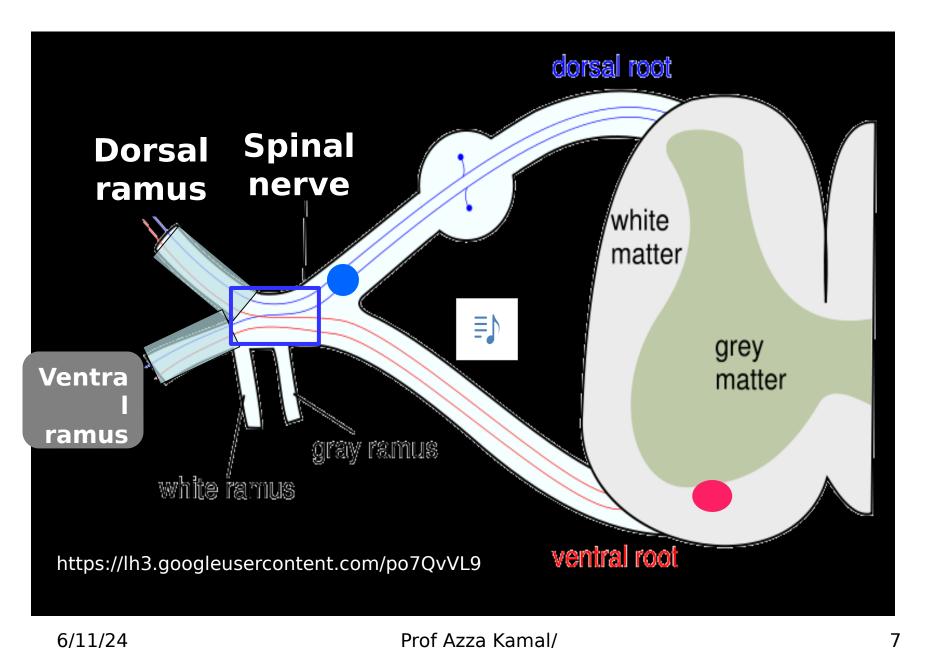
Stages of Brachial Plexus

 Really Tired? Drink Coffee Buddy!

• R = ROOTS (ventral rami of C5,6,7,8,T1)



- T = TRUNKS
- D = DIVISIONS
- \cdot C = CORDS

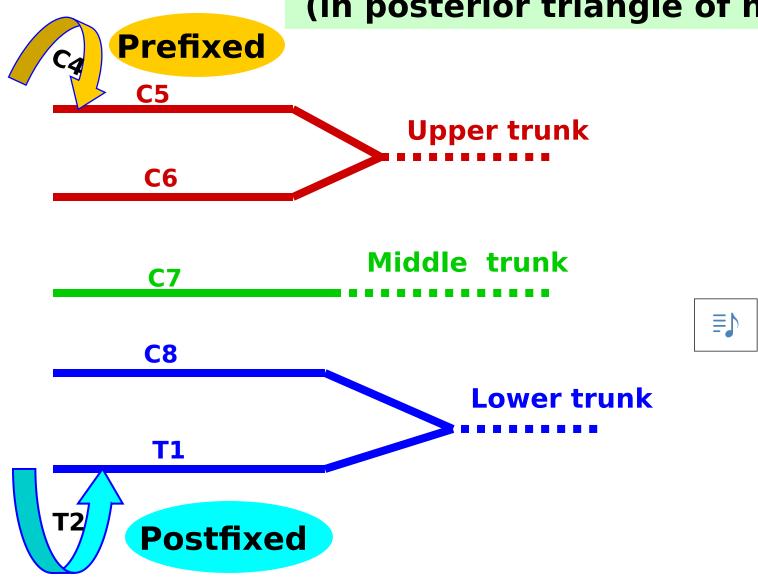


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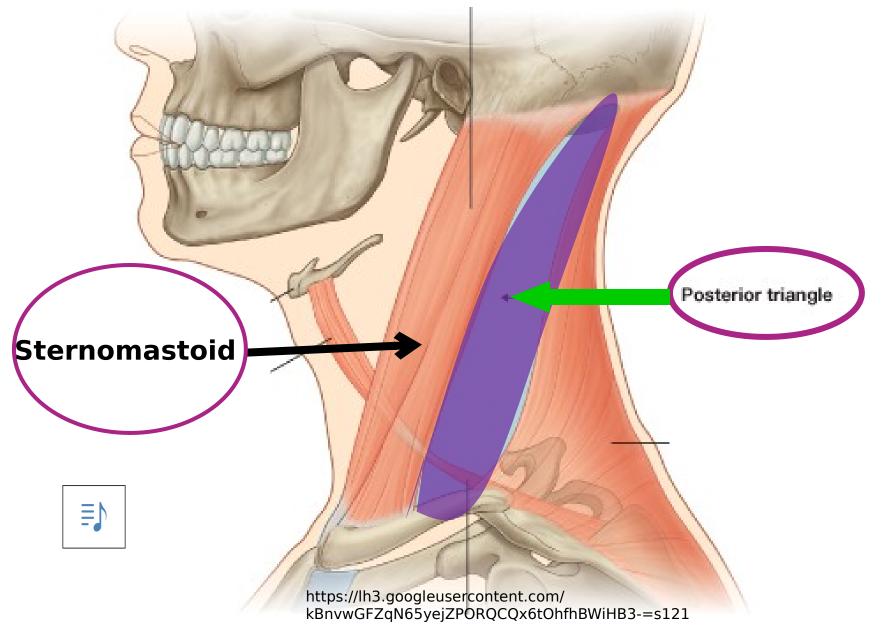
Ventral rami

6/11/24

Roots join to form Trunks (in posterior triangle of neck)

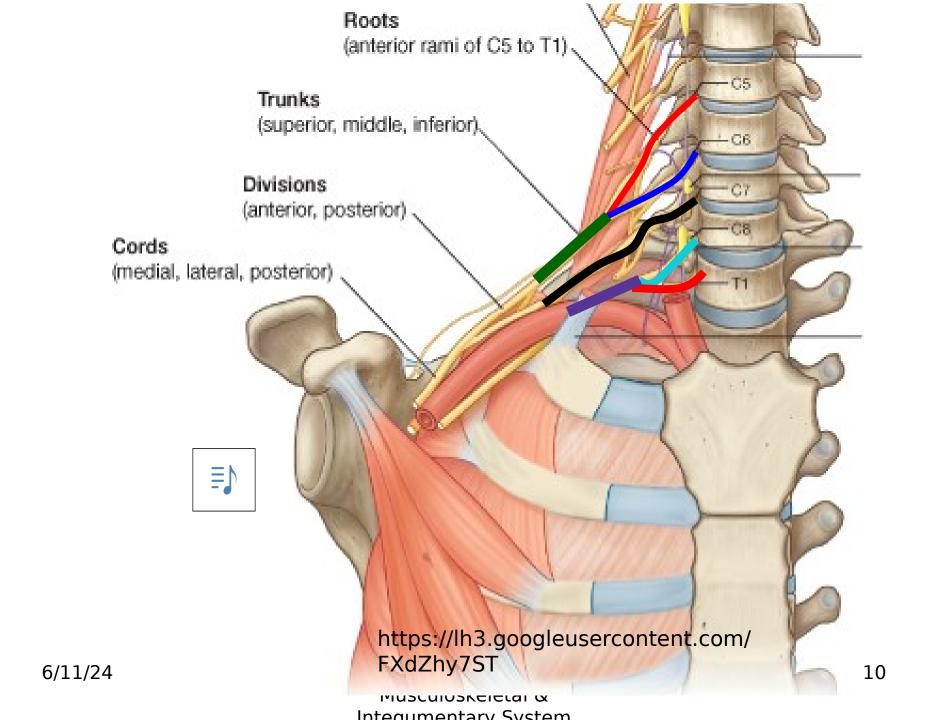


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Trunks Split to form Divisions

(in cervicoaxillary canal)

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Trunks **Divisions**

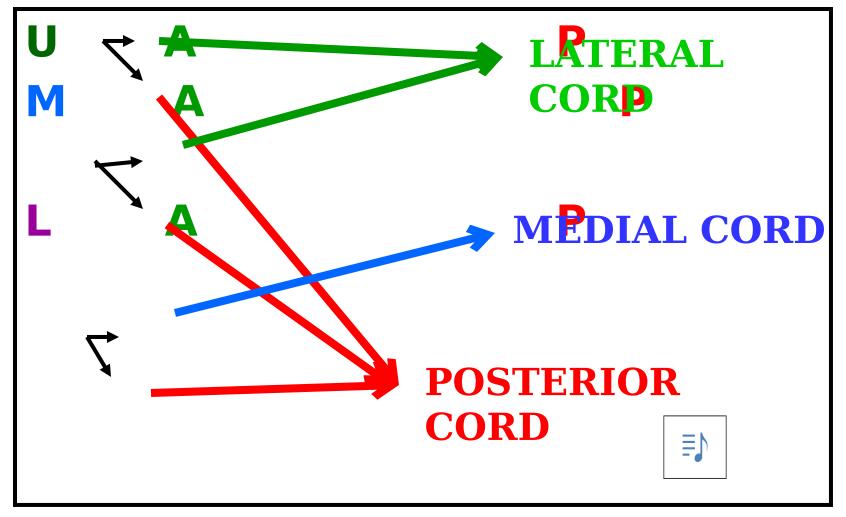
Upper____ ___Apterior **Posterior**



Middle——— Anterior **Posterior**

Lower **Anterior** 6/11/24

Divisions Join to form Cords (in axilla)



- Each trunk divides into anterior and posterior divisions
- Stage of divisions lies in cervicoaxillary canal
- Anterior divisions of upper and middle trunks join to form lateral cord
- Anterior division of lower trunk forms medial cord
- Posterior divisions of the strunks form posterior cord



REMEMBER Really Tired? Drink Coffee Buddy!!!!



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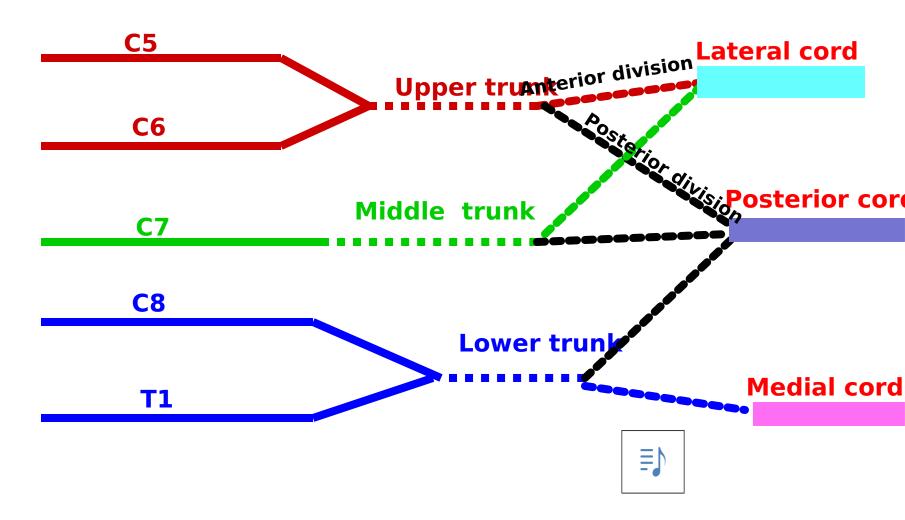
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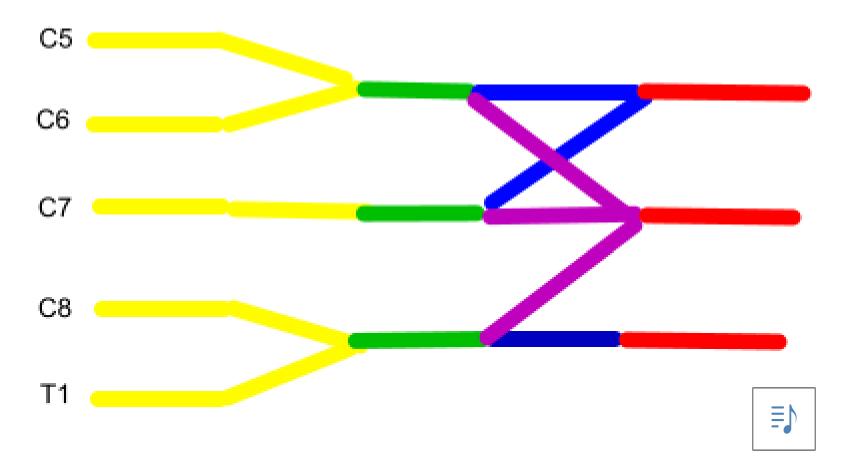


Roots (in neck)









 Which of the following stages of the brachial plexus lies in the cervicoaxillary canal?

A. Roots

B. Trunks

C. Divisions

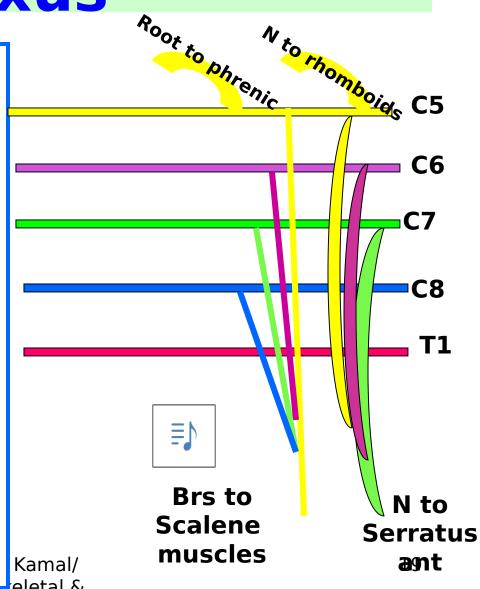
D. Cords

E. Branches from cords



Branches of Brachial Plexus

- 1) Branches from roots:
- A. Dorsal scapular (n. to rhomboids) C5
- **B.A root to phrenic nerve C5**
- C. Long thoracic C5,6,7(n. to serratus anterior)
- D. Muscular brs to scalene muscles C5.6.7.8



Branches of Brachial Plexus

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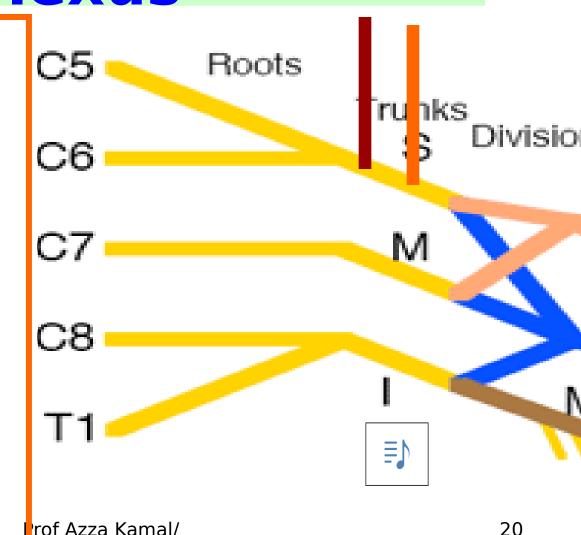
Integumentary System

Branches from trunks only upper

{Superior} trunk gives branches:

A. Suprascapular nerve (for supraspinatus & infraspinatus)

6/11/24 **B. Nerve to**



• Branches from divisions :

DIVISIONS GIVE NO BRANC



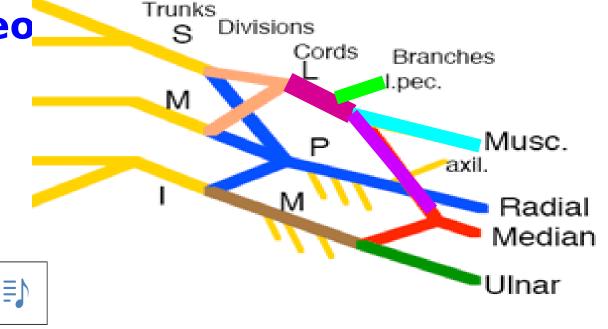


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Branches from cords :

1) Lateral cord:

- Lateral pectoral Roots
- Musculocutaneo us
- Lateral root of median



Branches from cords:

2) Medial Cord:

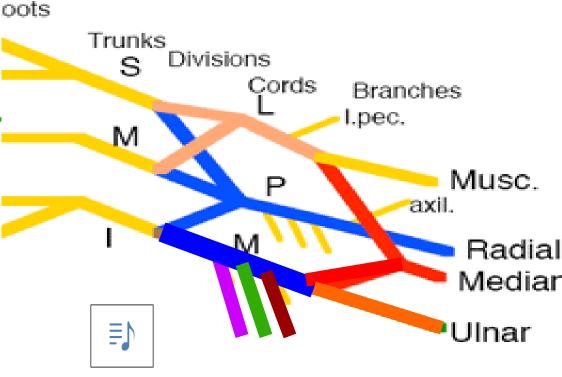
Medial pectoral

Medial cutaneous of arm

Medial cutaneous of forearm

Medial root of median

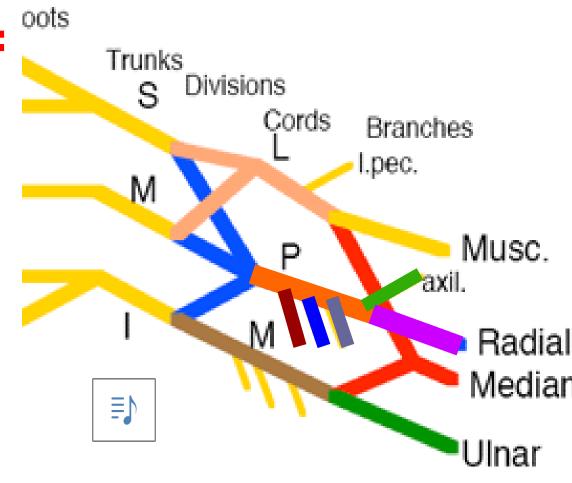
Ulnar nerve

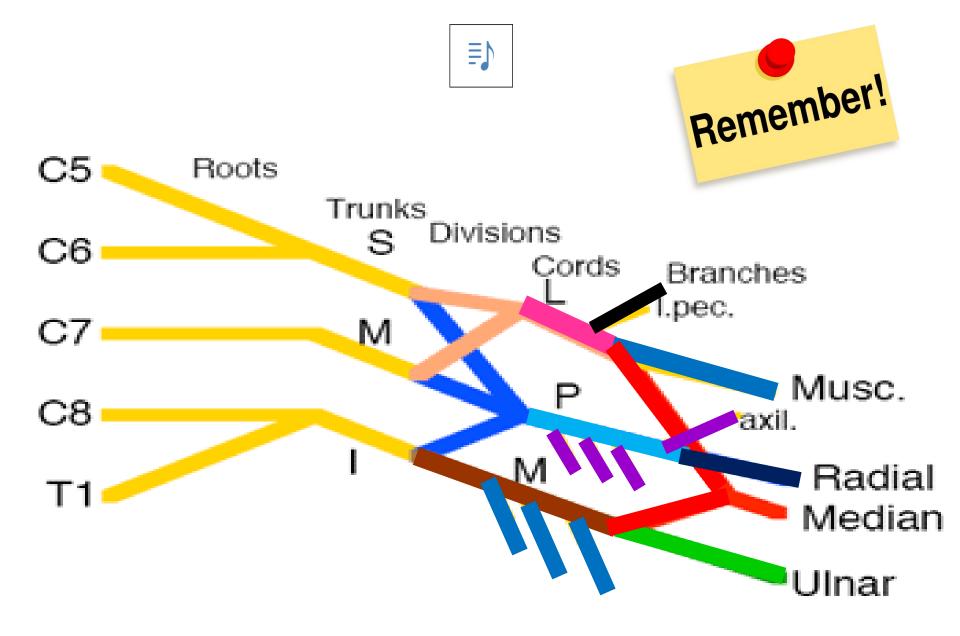


Branches from cords :

3) Posterior cord:

- **Upper**subscapular
- Lower subscapular
- Nerve to latissimus dorsi
- >Axillary nerve
- **Radial** nerve





- The posterior cord of the brachial plexus gives the following branches, EXCEPT:
- A. Upper & lower subscapular nerves
- **B.** Nerve to serratus anterior
- C. Nerve to latissimus dors
- **D.** Axillary nerve
- E. Radial nerve

 Which of the following stages of the brachial plexus does not give branches?

- A. Roots
- **B.** Trunks
- C. Divisions
- **D.** Cords





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